a transmitting SAW filter formed on the substrate the transmitting SAW filter having a first serial arm resonator and a first parallel arm resonator, the first serial arm resonator being connected to the first parallel arm resonator; and

a receiving SAW filter formed on the substrate, the receiving SAW having a second serial arm resonator and a second parallel arm resonator and a second parallel arm resonator, the second serial arm resonator being connected to the second parallel arm resonator.

13. A single chip device according to claim 12, further comprising:

a branching filter circuit formed on the substrate so as to be connected to the transmitting and receiving SAW filters.

13.4. A single chip device according to claim 13, wherein the branching filter circuit is composed of a third serial arm resonator.

175. A single chip device according to claim 13, further comprising:
a frequency adjusting circuit formed on the substrate so as to be connected with the branching filter circuit.

15. A single chip device according to claim 15, wherein the frequency adjusting circuit has an inductance element and a capacitance element.

1027. A single chip device including a plurality of surface acoustic wave filters, the single chip device comprising:

a transmitting SAW filter having a first serial arm resonator and a first parallel arm resonator, the first serial arm resonator being connected with the first parallel arm resonator;

a receiving SAW filter having a second serial arm resonator and a second parallel arm resonator, the second serial arm resonator being connected with the second parallel arm resonator; and

a common piezoelectric substrate on which both of the transmitting SAW filter and the receiving SAW filter are formed.

17. A single chip device according to claim 17, further comprising:

a branching filter circuit being formed on the common piezoelectric substate so as to be connected with the transmitting and receiving SAW filters.

19. A single chip device according to claim 18, wherein the branching filter circuit is composed of a third serial arm resonator.

20. A single chip device according to claim 18, further comprising:

a frequency adjusting circuit being formed on the common piezoelectric substrate so as to be connected with the branching filler circuit.

21. A single chip device according to claim 20, wherein the frequency adjusting circuit has an inductance element and a capacitance element.

22. A surface acoustic wave duplexer having an antennal terminal, a transmitting terminal and a receiving terminal, comprising:

a transmitting SAW filter coupled between the antenna terminal and th transmitting terminal;

a receiving SAW filter coupled between the antenna terminal and the receiving terminal:

a common piezoelectric substrate on which both of the transmitting SAW filter and the receiving SAW filter are formed; and

a package covering the common piezoelectric substrate, wherein the antenna terminal, the transmitting terminal and the receiving terminal are formed on the package.

23. A surface acoustic wave duplexer according to claim 22, further comprising: a branching filter circuit coupled between the antenna terminal and the transmitting SAW filter or the receiving SAW filter.

24. A surface acoustic wave duplexer according to claim 23, wherein the branching filter circuit is composed of a serial arm resonator.

23. A surface acoustic wave duplexer according to claim 23, wherein the branching filter circuit is formed on the common piezoelectric substrate with the transmitting and receiving SAW filters.

26. A surface acoustic wave duplexer according to claim 23, wherein the package has a multi-layer structure.

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27. A surface acoustic wave duplexer according to claim 26, wherein the branching filter circuit is formed on the package.

28. A surface acoustic wave duplexer according to claim 26, wherein the package has a first layer substrate and a second layer substrate, the first layer substrate is disposed on the second substrate, and the branching filter circuit is formed on the first layer substrate or the second layer substrate.

29. A surface acoustic wave duplexer according to claim 23, further comprising: a frequency adjusting circuit being coupled between the antenna terminal and the branching filter circuit.

30. A surface acoustic wave duplexer according to claim 29, wherein the frequency adjusting circuit has an inductance element and a capacitance element.

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31. A surface acoustic wave duplexer according to claim 29, wherein the frequency adjusting circuit is formed on the common piezoelectric substrate together with the branching filter circuit.

31/22. A surface acodstic wave duplexer according to claim 29, wherein the package has a multi-layer structure.

33. A surface acoustic wave duplexer according to claim 32, wherein the frequency adjusting circuit is formed on the package.

324. A surface acoustic wave duplexer according to claim 32, wherein the package has a first layer substrate and a second layer substrate, the first layer substrate is disposed on the second substrate and the frequency adjusting circuit is formed on the first layer substrate or the second layer substrate.

35. A surface acoustic wave duplexer having an antenna terminal, a transmitting terminal and a receiving terminal, comprising:

a SAW filter chip including a transmitting SAW filter connected with the transmitting terminal and a receiving SAW filter connected with the receiving terminal, wherein both the transmitting SAW filter and the receiving SAW filter are formed on one common piezoelectric substrate;

a package covering the one common piezoelectric substrate, wherein the antenna terminal, the transmittal and the receiving terminal are formed on the package.

لماعهم) بلوخ 35. A surface acoustic wave duplexer according to claim 25, further comprising: a branching filter circuit being coupled between the antenna terminal and the

35. A surface acoustic wave duplexer according to claim 36, wherein the branching filter circuit is composed of a serial arm resonator.

transmitting SAW filter or the receiving SAW filter.

35, wherein the branching filter circuit is formed on the common piezoelectric substrate with the transmitting and receiving SAW filters.

38, 39. A surface acoustic wave duplexer according to claim 35, wherein the package has a multi-layer structure.

39 40. A surface acoustic wave duplexer according to claim 39, wherein the branching filter circuit is formed on the package.

41. A surface acoustic wave duplexer according to claim 39, wherein the package has a first layer substrate and a second layer substrate, the first layer substrate being disposed on the second substrate, and the branching filter circuit is formed on the first layer substrate or the second layer substrate.

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42. A surface acoustic wave duplexer according to claim 36, further comprising:
a frequency adjusting circuit being coupled between the antenna terminal and the branching filter circuit.

A surface acoustic wave duplexer according to claim 42, wherein the frequency adjusting circuit has an inductance element and a capacitance element.

43. A surface acoustic wave duplexer according to claim 42, wherein the frequency adjusting circuit is formed on the common piezoelectric substrate with the branching filter circuit.

45. A surface acoustic wave duplexer according to claim 42, wherein the package has a multi-layer structure.

44. A surface acoustic wave duplexer according to claim 45, wherein the frequency adjusting circuit is formed on the package.

A. A surface acoustic wave duplexer according to claim 45, wherein the package has a first layer substrate and a second layer substrate, the first layer substrate being disposed on the second substrate, and the frequency adjusting circuit is formed on the first layer substrate or the second layer substrate.